

Go/No Go Test

Xperia ™ Z1

C6902/ C6903/ C6906/ C6943/ L39h

1278-1384 *Rev 5*



CONTENTS

C6902 and L39h no LTE is ONLY implemented in SERPII.
C6903, C6906 and C6943 no LTE is implemented in SERPII.
C6903 and C6906 all bands is ONLY implemented in CMWrun



1 Go/No Go Testing

This Go/No Go testing has to be carried out with an:

- Antenna Coupler.

For more information on Antenna Coupler and Cable in shield box testing, refer to 1220-1336: Generic Repair Manual – electrical, section 'Setup Go/NoGo Test'!

For part no's on the equipment below, refer to the 'Tools Catalogue/Matrix'!

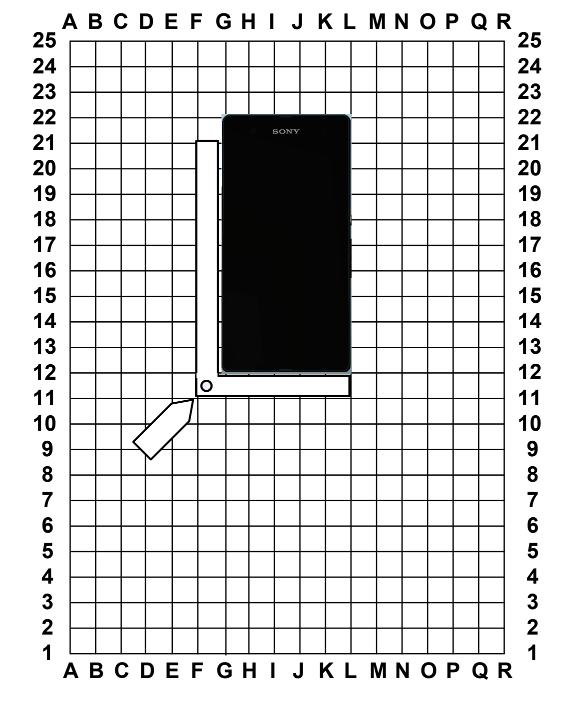
1.1 Antenna Coupler C6902, C6903, C6906, C6943 and L39h no LTE

The following equipment has to be used:

- Rohde & Schwartz RF Shield Package
  - Rohde & Schwartz RF Shield Box CMU-Z11
  - Rohde & Schwartz RF Coupler
  - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900
WCDMA-850/900/1700/1900/2100

Put the grid positioning holder with its reference point in position **F11** and place the phone as shown in the adjacent picture.



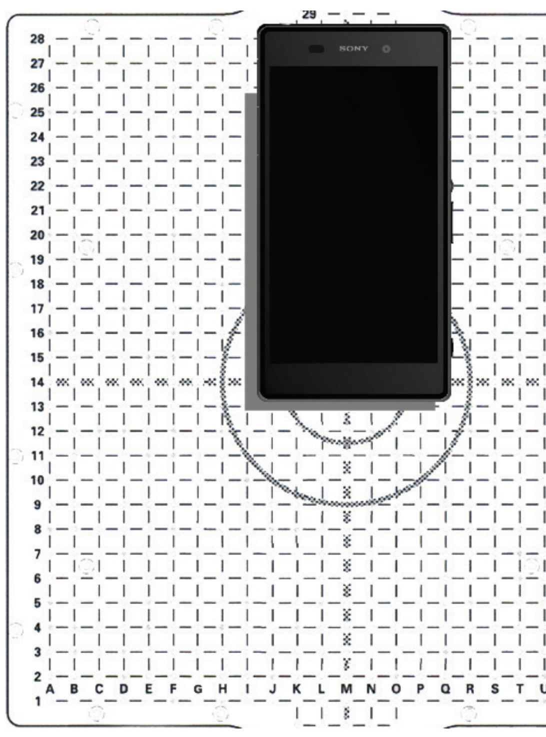
1.2 Antenna Coupler C6903 C6906 all bands

The following equipment has to be used:

- Rohde & Schwartz RF Shield Package
  - Rohde & Schwartz RF Shield Box
  - Rohde & Schwartz RF Coupler CMW-Z11
  - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Micro USIM Card, instrument specific

GSM-850/900/1800/1900
WCDMA-850/900/1700/1900/2100
LTE-Band 1/2/3/4/5/7/8/17/20

Put the grid positioning holder with its reference point in position **i13** and place the phone as shown in the adjacent picture.



Go/NoGo Testing

Follow the directions stated in ‘Go/NoGo Test Script Parameters’ to be found in 1220-1336: Generic Repair Manual – electrical, together with the ‘Attenuation Factors’ below!

This phone is available in 5 versions, C6902 C6903 C6906 C6943 and L39h, including the following bands:

C6902 and L39h:
GSM-850/900/1800/1900
WCDMA-850/ 900/1700/1900/2100

C6903 and C6943:
GSM-850/900/1800/1900
WCDMA-850/ 900/1700/1900/2100
LTE-1/2/3/4/5/7/8/20 not to be tested in SERPII

C6906:
GSM-850/900/1800/1900
WCDMA-850/ 900/1700/1900/2100
LTE-1/2/4/5/7/8/17 not to be tested in SERPII



1.3 Attenuation Factors

The attenuation values listed below in 1.3.1 and 1.3.2 is valid only when the equipment listed on the previous pages is being used!

1.3.1 Loss Values – Antenna Coupler CMU-Z11

Band	Channel	Attenuation C6902 and L39h Rx	Attenuation C6902 and L39h Tx	Attenuation C6903, C6906 and C6943 Rx	Attenuation C6903, C6906 and C6943 Tx
GSM 850	Low	9.50	9.66	9.50	9.66
	Mid	7.00	8.64	7.00	8.64
	High	6.50	7.38	6.50	7.38
GSM 900	Low	5.50	8.45	5.50	8.45
	Mid	8.00	7.00	8.00	7.00
	High	11.50	7.31	11.50	7.31
GSM 1800	Low	15.50	13.17	15.50	13.17
	Mid	12.50	11.56	12.50	11.56
	High	11.50	11.27	11.50	11.27
GSM 1900	Low	15.00	10.74	15.00	10.74
	Mid	19.50	10.56	19.50	10.56
	High	18.50	12.14	18.50	12.14
WCDMA 850	Low	8.50	10.44	8.50	10.44
	Mid	8.00	9.64	8.00	9.64
	High	7.00	9.02	7.00	9.02
WCDMA 900	Low	8.50	7.56	8.50	7.56
	Mid	7.50	6.97	7.50	6.97
	High	10.50	7.16	10.50	7.16
WCDMA 1700	Low	18.00	14.01	18.00	14.01
	Mid	17.50	13.07	17.50	13.07
	High	17.00	11.90	17.00	11.90
WCDMA 1900	Low	14.50	11.85	14.50	11.85
	Mid	17.50	10.63	17.50	10.63
	High	18.00	12.45	18.00	12.45
WCDMA 2100	Low	16.00	13.03	16.00	13.03
	Mid	16.50	16.01	16.50	16.01
	High	15.50	17.87	15.50	17.87



Go/NoGo Testing

1.3.2 Loss Values – Antenna Coupler CMW-Z11

		Attenuation			
		C6903		C6906	
Band	Channel	Rx	Tx	Rx	Tx
GSM 850	Low	19.00	15.00	27.00	19.0
	Mid	20.00	14.00	24.00	20.1
	High	16.00	15.00	19.00	22.3
GSM 900	Low	11.50	21.80	16.00	22.4
	Mid	14.00	15.50	21.00	15.2
	High	20.00	12.00	23.00	12.3
GSM 1800	Low	13.50	13.00	14.00	12.6
	Mid	16.00	11.50	15.00	11.9
	High	16.50	12.00	18.00	12.2
GSM 1900	Low	16.00	15.00	16.00	16.0
	Mid	17.00	15.80	16.00	17.4
	High	16.50	16.00	16.00	15.4
WCDMA 850	Low	24.00	14.30	21.00	18.0
	Mid	22.50	14.20	20.00	18.6
	High	18.50	15.50	18.00	20.5
WCDMA 900	Low	15.50	18.60	16.00	19.4
	Mid	17.00	13.70	21.00	14.1
	High	20.50	11.00	24.00	11.8
WCDMA 1700	Low	22.00	11.00	18.00	11.3
	Mid	21.50	10.10	18.00	11.2
	High	20.00	10.50	18.00	11.0
WCDMA 1900	Low	17.00	15.10	16.00	15.0
	Mid	17.00	15.80	16.00	16.1
	High	18.50	14.50	17.00	15.6
WCDMA 2100	Low	22.00	13.50	18.00	14.2
	Mid	21.00	13.80	18.00	13.7
	High	20.00	14.30	16.00	14.5
BAND 1	Low	20.00	15.40	18.00	15.7
	Mid	19.00	15.50	18.00	15.2
	High	18.00	16.30	16.00	15.8



Go/NoGo Testing: Attenuation Factors

BAND 2	Low	15.00	16.80	15.00	16.7
	Mid	15.00	17.20	15.00	17.6
	High	16.50	16.30	16.00	16.6
BAND 3	Low	13.50	13.00		
	Mid	14.50	12.30		
	High	16.50	13.30		
BAND 4	Low	20.00	13.00	18.00	13.5
	Mid	19.50	12.30	18.00	13.4
	High	19.00	12.50	18.00	13.3
BAND 5	Low	21.00	16.50	24.00	20.8
	Mid	20.00	16.70	22.00	21.4
	High	18.00	17.70	19.00	22.6
BAND 7	Low	23.00	26.10	25.00	30.2
	Mid	23.50	25.20	25.00	27.7
	High	22.50	27.20	25.00	29.7
BAND 8	Low	13.00	19.40	17.00	21.5
	Mid	15.50	15.60	21.00	17.1
	High	17.00	13.30	25.00	14.3
BAND 17	Low			22.00	21.4
	Mid			23.00	21.3
	High			23.00	21.2
BAND 20	Low	21.00	16.00		
	Mid	19.50	17.50		
	High	17.00	18.70		



2 Revision History

Rev.	Date	Changes / Comments
1	2013-Sep-07	Initial release
2	2013-Sep-18	Added C6903
3	2013-Oct-09	Added C6906
4	2013-Oct-12	C6903 and C6906 no LTE added to SERPII
5	2013-Nov-02	C6943 no LTE added to SERPII. Moved to SL2